



## **Request for Proposal for provision and installation of GPS vehicle fleet tracking system and associated support services for septic tank desludging trucks in Hyderabad**

Administrative Staff College of India (ASCI), Hyderabad invites competitive bids for vendors to submit proposal for provision of GPS devices, installation of tracking system and support services for licensed septic tank desludging vehicles in Hyderabad. This is to make the desludging services more robust, automated for efficient tracking and monitoring.

The tracking web platform is to be integrated with the existing “**dial-a-desludger**” platform of the metro customer care service of HMWS&SB for receiving the request of desludging services from citizens.

All the prospective vendors are requested to kindly go through the “**Terms of Reference**” available at [www.asci.org.in](http://www.asci.org.in) and submit their bids accordingly.

**The last date & time of submission of bids: 04.12.2020 up to 05:00 pm.**

The interested agencies are requested to download the documents from the website and submit the necessary supporting documents online at [ranjitk@asci.org.in](mailto:ranjitk@asci.org.in) as per the ToR.

**Sd/- Centre Director**  
Centre for Environment, Urban Governance &  
Infrastructure Development, ASCI

## Terms of Reference (ToR)

### *Provision and Installation of GPS vehicle fleet tracking system and associated support services for septic tank desludging trucks in Hyderabad*

#### **Background:**

Safe and inclusive sanitation is a basic service for achieving improved public health outcomes and for making urban areas livable and productive. Hyderabad is among the most livable and vibrant cities in the country. It has many lakes and water bodies, providing environmental and recreational benefits to the citizens. The city has made significant progress in sanitation, toilet coverage and wastewater treatment capacities. However, there are certain gaps in safe management of waste with reference to faecal sludge management as 50% of the households are dependent on OSS like septic tanks and twin pits. The faecal sludge /septage from these septic tanks are periodically desludged by unregulated private operators (gulers) and discharged illegally into water bodies and other open areas causing pollution of water bodies, public health, and environmental issues. It is to be noted that the pollution potential of faecal sludge (8000-10,000 mg/l BOD) is far higher than domestic sewage (250-300 mg/l BOD) and hence needs immediate attention.

Faecal sludge and septage management (FSSM) refers to the management of all stages of the sanitation value chain such as collection, emptying, transport, treatment, disposal, and reuse of faecal sludge from OSS. The city needs faecal sludge treatment plants (FSTPs) infrastructure to treat the waste and ensure the protection of public health, water bodies and environment. It also needs to create capacities for sustaining FSSM interventions

Hyderabad Metropolitan Water Supply and Sewerage Board (HMWS&SB) recognized the importance of addressing this problem and initiated a multipronged approach. In line with the Telangana State FSSM policy (G.O.MS 176, 2018), HMWS&SB has taken practical steps towards effective FSSM system by a) licensing over 75 desludging operators b) training them in safe practices including usage of PPE and c) promoting co-treatment of septage at the existing functional STPs. Necessary infrastructure to co-treat septage has been introduced at five locations and another four STPs are being converted. 5/6 FSTPs are being proposed in the peripheral areas of Hyderabad and the first FSTP is planned to be established near Navakunta lake under CSR initiative.

HMWS&SB now envisage to implement FSSM and achieve ODF++ in the 1650 sq. km area covering GHMC and ORR and 1 km around ORR along with a regulatory framework for licensed desludging operators to prevent open dumping of septage. In line with this, HMWS&SB has developed an ICT based monitoring system called “**dial-a-desludger**” to

regulate (MCC) the desludging activities in the city. It is integrated with the existing metro customer care service of HMWS&SB for receiving the request of desludging services from citizens. Administrative Staff College of India (ASCI) is the knowledge partner of HMWS&SB in this endeavor.

**As part of this initiative, to make the approach more robust and automated for efficient tracking, HMWS&SB has decided to install GPS tracking devices in all the licensed desludging trucks. ASCI on behalf of HMWS&SB invites companies to submit proposal for provision of GPS devices, installation of tracking system and support services for licensed septic tank desludging vehicles in Hyderabad.**

**Scope of requested services:**

- a. Provide and install (including configuring) the GPS Devices with the existing SIM/Data cards of the operators for enabling PRS on the GPS device for vehicle tracking system
- b. The web platform/ software application to be provided by the bidder is to be integrated with the existing dial-a-deslugger platform and provide comprehensive training and support on web-platform for up to ten (10) MCC after the complete installation of the system at no additional cost
- c. Provide as timely software upgrades at no additional cost for a period of 1 year
- d. De-installation of the tracking device in case of written-off and disposed vehicles at no additional cost
- e. Re-installation of a tracking device previously in use or in case of new vehicles at no additional cost
- f. Provide active tracking and monitoring of vehicles, 24 hours, seven (7) days a week
- g. ALL the devices should have an uptime of 99.99%. If any device is not working needs to be rectified or replaced is always to be done within a stipulated time (72 hr) to ensure functionality
- h. Provide backup and data restoration solutions to support business continuity
- i. The Bidder's web-platform is also required to be able to provide data reports\* on demand in the form of soft copies to HMWS&SB

\*All data generated by GPS mounted on the vehicles shall be the property of HMWS&SB.

**Device Functionality:**

The following provide for the minimal functionality of the device to be used:

- a. A tracking device that uses Global Positioning System (GPS) technology for locating vehicles
- b. The device must capture the GPS location information and vehicle information in real time and at regular intervals and transfer data to a central secure server

- c. The device must be fitted in the vehicle in a manner that does not interfere with vehicle operation, manufacturer warranties, is un-detachable and is difficult to tamper with
- d. The device must also be connected to the vehicle's battery
- e. The device must have a backup battery
- f. The device must allow remote immobilization and mobilization
- g. The device must allow for remote software upgrade
- h. The device must be able to report movements of the vehicle locked within a geographic space or designated area
- i. GPS devices are required to hold data for at least sixty (60) days.
- j. The devices should be compatible to the servers used by HMWS&SB with appropriate facility to capture and store data at centralized database in LAN environment/internet.

### Duration and Estimate of Services

The duration of this assignment for installation and integrating tracking with HMWS&SB dial -a-deslugger platform is 2 months and the other support services at no cost to be provided for the next 10 months.

Milestone	Timeline	Payment (% total quoted amount)
Procurement and supply of 100 units GPS tracking devices	T0+ 15 days	30%
Installation of GPS devices on desludging vehicles	T0+ 30 days	30%
Software integration, test runs and complete hand over	T0+ 60 days	20%
10 months support services (repair, re-installation, de-installation, bug fixes for web platform etc.)	T0+ 365 days	20%

### Supporting Documents for Bid Submission

1. Demonstrated level of understanding of GPS/AVLT
  - a. Scope of work (outlining the suggestions on proposed ToR if any)
  - b. Approach and Methodology
  - c. Experience of similar projects in the last three years
  - d. Plan for software solution design, architecture and integration with dial-a - deslugger platform
  - e. Product details and specifications

- f. Proposed Annual maintenance plan (including replacement/ repair of faulty devices)
- 2. Financial balance sheet for the past 3 years (i.e. 2016-17, 2017-18, 2018-19)
- 3. Copy of AIS-140, 2016 certificate (The specification, testing and certification of the aforesaid vehicle location tracking device and emergency button shall be in accordance with AIS-140, 2016. The vehicle location tracking device will be fitted either by the manufacturer or their dealer or the operator as per AIS-140, 2016)

## **Annexure - 1**

### **UNDERTAKING ON NOT BEING BLACKLISTED – ON LETTER HEAD**

We M/s ..... do hereby undertake that, in competing for (and, if the award is made to us, in executing) the subject for ..... Under TENDER PUBLISHED ON \_\_\_\_\_ at \_\_\_\_\_ we shall strictly observe the laws against fraud and corruption in force in the country. We further state that, we have not been debarred/blacklisted by any Government organization in India till date.

S d/-

Signature of proprietor/ Partner/ Director

Designation:

Seal:

## Annexure - 2

### PRICE BID

S.No	Items	Make/ Model	No. of Units (Approx.)	Amount (Rs)		
				Unit Rate	Applicable taxes (if any)	Total
1	GPS devices					
2	Installation and support service of GPS devices and web platform					
<b>Total</b>						